

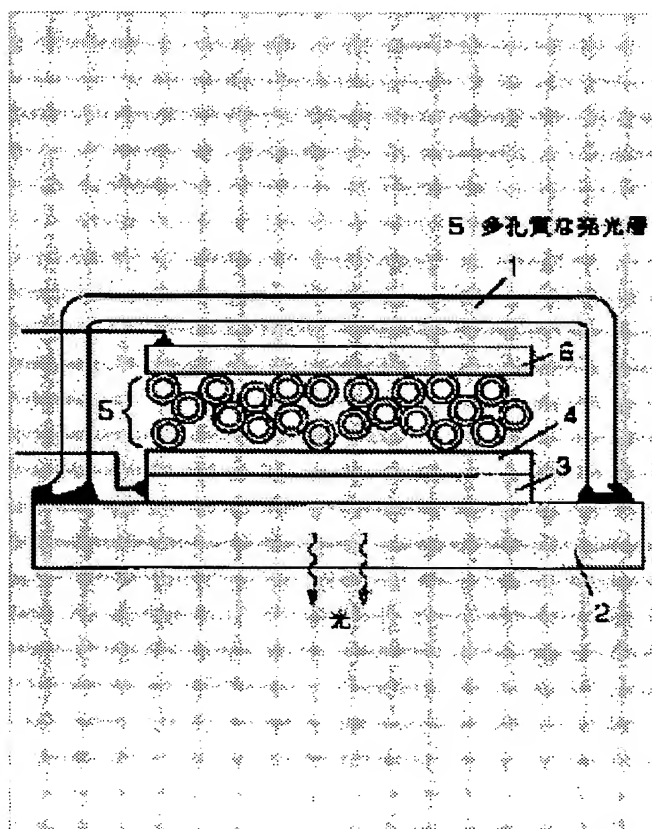
ELECTROLUMINESCENT DEVICE

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Classification:
- international: H01L51/50; H01L51/50; (IPC1-7): C09K11/06; H05B33/14; H05B33/04; H05B33/10; H05B33/22
- european:
Application number: JP19970325736 19971127
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Abstract of JP11162640

PROBLEM TO BE SOLVED: To provide a new electroluminescent device with lower electric field strength and excellent luminous brightness by composing an element of a new principle. **SOLUTION:** In this electroluminescent device, a fine and transparent solid thin film 4 of hole transporting is formed on a transparent anode 3 for hole injection formed on a transparent base board 2 in a sealed container 1, a porous luminous layer 5 with an air gap containing an electron receptive molecule of fluorescent luminescence at least on its surface, furthermore, a thin film cold cathode 6 is formed on its top, and the electron receptive molecule of fluorescent luminescence is energized and made to emit light through discharging by electron radiation from the thin film cold cathode 6 under a direct current electric field. Thereby, a new electroluminescent device with lower electric field strength and excellent luminous brightness can be obtained. Devices with various structures to emit a laser beam are included in this electroluminescent device.



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